

SECRET

ROUTING AND RECORD SHEET

INSTRUCTIONS: Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry.

FROM:				NO.	
COMMUNICATIONS SUPPLEMENTAL				SPM-5-144	
PROGRAMS DIVISION				DATE	
				27 June 1955	
TO	ROOM NO.	DATE		OFFICER'S INITIALS	COMMENTS
		REC'D	FWD'D		
1. OC-E /	1800 Alcott			AS	4-5 Pse give me an estimate as to when this could be done. <i>PH</i>
2.		1155-890 6/29			
3. OC-E		6/30		<i>PH</i>	
4. R&D			7-1	<i>PH</i>	5-6 Pse see me on this. <i>PH</i>
5. R&D Lab			7-6	<i>PH</i>	
			7-6	<i>PH</i>	
6.					
7.					
8.					
9.					
10.					1. Self-contained power? 2. If, so what battery life? 3.
11.					
12.					
13.					
14.					
15.					

25X1

Office Memorandum • UNITED STATES GOVERNMENT

TO : Chief, Communications Engineering Division

SPM-5-144

DATE:

FROM : Chief, Communications Supplemental Programs Division

SUBJECT: Audio Oscillator

DOCUMENT NO. _____

NO CHANGE IN CLASS. ☐☐ DECLASSIFIEDCLASS. CHANGED TO: TS S C 2010 25X1

NEXT REVIEW DATE: _____

AUTH: HR 70-2

DATE: 2 DEC 1980

REVIEWER: 064540

1. This Division has an outstanding requirement for a personal-carried audio oscillator to be used in conjunction with ELINT presence receivers. The intent of the oscillator is to enable to approximate the PRF of an intercepted radar by matching the frequency of the audio oscillator to that of the radar. This Division has conducted preliminary investigations to determine the desirable characteristics of such an oscillator and has arrived at the following as operational requirements:

- A. The size should not be in excess of 3 x 2 x 1 inches;
- B. Frequency range: 30 - 3000 CPS;
- C. Frequency stability: 5% between the limits of 0°C ^{to} 50°C;
- D. Calibration accuracy: 10% at the low end and 5% at the high end;
- E. Output wave form: Pulse;
- F. Connections: (1) presence receiver input ?
(2) miniature headphone output;
- G. Manual Controls: (1) pushbutton on/off switch
(2) frequency control
(3) output level (if practical);

2. It is requested that your Division undertake the design and construction of two oscillators conforming to the operational characteristics as described above. Should your laboratory models prove successful in local field evaluations, it is anticipated that a contract for twenty-five additional oscillators will be instigated with your models serving as prototypes. Should your Division desire additional information concerning the intended use or operational characteristics required, reference is made to the ELINT Activities Branch of this Division (2718 Alcott Hall,)

Please handle on an "QRC" basis!

HO

Distribution:

Orig & 1 - OC-E

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